



## Python - Training Plan

Module #	Module Name	Topic	Sub Topic	Level
1.0	Introduction	Introduction to Python	History of Python	Fundamental
		,	Features of Python	Fundamental
		Python 2 vs Python 3	which one to start with? Python 2 or Python 3	Fundamental
			Why we should start with Python 3	Fundamental
		Why the demand python is very high?	Factors responsible for why python is preferred	Fundamental
2.0	Variables and DataTypes	Variables	Naming Convention	Fundamental
-			Scope of a variable	Fundamental
		Datatypes	Integer	Fundamental
			Floating Point Numbers	Fundamental
			Boolean	Fundamental
			String	Fundamental
			Complex Numbers	Fundamental
3.0	Operators	Arithmetic Operators	Addition	Fundamental
			Subtraction	Fundamental
			Multiplication	Fundamental
			Division	Fundamental
			Floor Division	Fundamental
			Exponent	Fundamental
			Modulus	Fundamental
		Comparison Operator	"==" operator	Fundamental
			!= to operator	Fundamental
			<> Operator	Fundamental
			> Operator	Fundamental
			< Operator	Fundamental
			>= Operator	Fundamental
			<= Operator	Fundamental
		Assignment Operator	"=" Operator	Fundamental
		Assignment operator	"+=" Operator	Fundamental
			"-=" Operator	Fundamental
			"*=" Operator	Fundamental
			"/=" Operator	Fundamental
			"%=" Operator	Fundamental
			"**=" Operator	Fundamental
			"//=" Operator	Fundamental
		Bituico Operator	11.	
		Bitwise Operator	& Binary AND Operator   Binary OR Operator	Fundamental Fundamental
			^ Binary XOR Operator	
			~ Binary NOR Operator  ~ Binary ones Complement Operator	Fundamental
			·	Fundamental
			<< Binary Left Shift Operator	Fundamental
		1	>> Binary Right Shift Operator	Fundamental
		Logical Operator	and Logical Operator	Fundamental
			or Logical Operator	Fundamental
			not Logical Operator	Fundamental
		Membership Operator	in Operator	Fundamental
		11 0	not in operator	Fundamental
		Identity Operator	is Operator	Fundamental
			is not Operator	Fundamental
		Operator Precedence	List of all Operators according to Precedence	Fundamental
4.0	Python Statements	Conditional Statement	if statement	Fundamental
			if elif else statement	Fundamental
		Control Statement	Break and Continue	Fundamental
5.0	Looping	For Loop	For loop using range function	Intermediate
			For loop using iterator	Intermediate
		While loop	While loop syntax	Intermediate
6.0	Strings	Operations	Concatenation	Intermediate
			Replication	Intermediate
			Slicing	Intermediate
		In-built Functions	lower() , upper() , capitalize() , title() , swapcase()	Intermediate
			islower(), isupper(), istitle()	Intermediate
			strip(), lstrip(), rstrip()	Intermediate
			isalpha(), isnumeric, isdigit(), isdecimal()	Intermediate
			center() , ljust() , rjust()	Intermediate
			count() , encode() , startswith() , endswith()	Intermediate
			find() , index() , rindex(), split()	
			ima(), imaex(), imaex(), spirt()	Intermediate
7.0	List	Operations	Concatenation	Intermediate

			Slicing	Intermediate
		In-built Functions	cmp(), len(),max(),min(),list()	Intermediate
			list.append(), list.count(), list.extend(), list.index()	Intermediate
			list.insert(), list.pop(), list.remove(), list.reverse(), list.sort()	Intermediate
			reversed(),sorted()	Intermediate
8.0	Tuple	Operations	Concatenation	Intermediate
			Replication	Intermediate
			Slicing	Intermediate
		In-built Functions	cmp(), len(),max(),min(),tuple()	Intermediate
			sorted(), reversed(),tuple.count(), tuple.index()	Intermediate
9.0	Dictionary	Keys	Which type of data can be made key	Intermediate
		In-built Functions	cmp(), str() , len() , type()	Intermediate
			dict.clear(), dict.copy(), dict.fromkeys(), dict.key()	Intermediate
			dict.has_key() , dict.items(), dict.keys(), dict.setdefault()	Intermediate
			dict.values(), dict.update()	Intermediate
10.0	Sets	Operations	Intersection	Intermediate
			Union	Intermediate
			difference	Intermediate
			Symmetric_difference	Intermediate
		In-built Functions	add()	Intermediate
			clear()	Intermediate
11.0	Functions	Arguments	Required arguments	Advanced
			Keyword arguments	Advanced
			Default arguments	Advanced
			Variable-length arguments	Advanced
		Variables	Local Variable	Advanced
			Global Variable	Advanced
		Misc	Print Function with format function	Advanced
			lambda Function	Advanced
		Higher Order Functions	map	Advanced
			filter	Advanced
			reduce	Advanced
12.0	Object Oriented Programming	Introduction	class, class variable, Data Member	Expert
			Object	Expert
			Instance	Expert
			Methods	Expert
			Attributes	Expert
		All of the different	Object Instantiation	Expert
		Abstraction	Encapsulation	Expert
		Deliver and biom	Abstraction	Expert
		Polymorphism	Operator Overloading	Expert
		Inheritence	Operator Overriding Single Inheritence	Expert
		Inheriterice	Multiple Inheritence	Expert
			· ·	Expert
13.0	Database Management System	Operations	Multilevel Inheritence Creating Database, Insert Operation	Expert Expert
13.0	Database ivialiagement system	Operations	Write Operation, Update Operation	
			Normalisation	Expert Expert
		MySQL	select and where clause	Expert
		MINGLE	insert	Expert
			orderby	
			Join Join	Expert Expert
			Association	Expert
		MongoDB	select and where clause	Expert
		Mongood	insert	Expert
			orderby	Expert
			Join	Expert
			Association	Expert
14.0	Modules	Regular Expression	Meta Characters	Expert
	inidules	TOBAIL EXPLOSION	Special Sequences	Expert
			Sets	Expert
			findall() function	Expert
			search,split	Expert
			sub, match object	Expert
			July, materi object	
15.0	Exceptional Handling	Excentions	try block	Evnert
15.0	Exceptional Handling	Exceptions	try block	Expert
15.0	Exceptional Handling	Exceptions	except	Expert
15.0	Exceptional Handling	Exceptions	•	